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Fax Cover Sheet

Date: 11/2/2004



To:

Lamont M Spooner, Art Unit 2654

Fax (703) 746-3392

From:

Mark Farrell, Lee & Hayes,

Voice (509) 324-9256 x243

Re:

09/607,786

Attorney Docket MS1-441US

Request for Examiner Interview over Telephone

Number of Pages including cover sheet: 3

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PTOL-413A (09-04)
Approved for use through 07/31/2005. OMB 0651-0031
U.S. Patent and Tredemark Office: U.S. DEPARTMENT OF COMMERCE

Applicant Initiated Interview Request Form						
Application No.: 09/607, 786 First Named Applicant: JIANFENG GAO Examiner: (AMONT/M SPOONER Art Unit: 2654 Status of Application: FINAL						
Tentative Participal	ats: Fronce	_ (2)	K F	ARRELL		
(3)		_ (4)				
Proposed Date of Interview: Nov 3-11				Proposed Time:		(AM/PM)
Type of Interview ℜ (1) 🎮 Telephonic	lequested: (2)[]Perso	nai (3) [] Video	Conference		
Exhibit To Be Shown or Demonstrated: XYES []NO If yes, provide brief description: PROPOSED CLAIM						
Issues To Be Discussed						
Issues (Rej., Obj., etc)	Claims/ Fig. #s	Prior		Discussed	Agreed	Not Agreed
(1)		Art		[]	[]	[]
(2)				[]	[]	[]
(3)				[]	[]	[]
(4) Continuation She	eet Attached			[]	[]	[]
Brief Description of	Arguments to l	be Presented: ATENTABLE	NEA	PRIOR ART	· (see so	ent page)
		,				
An interview was conducted on the above-identified application on NOTE: This form should be completed by applicant and submitted to the examiner in advance of the interview (see MPEP § 713.01). This application will not be delayed from issue because of applicant's failure to submit a written record of this interview. Therefore, applicant is advised to file a statement of the substance of this interview (37 CFR 1.133(b)) as soon as possible. Applicant/Applicant's Representative Signature MACK C. FARRELL Typed/Printed Name of Applicant or Representative						
45.9		•				

This collection of information is required by 37 CFR 1.133. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form call 1-800-PTO-0199 and select option 2.

PAGE 2/3 * RCVD AT 11/2/2004 1:47:29 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-2/0 * DNIS:7463392 * CSID:509 323 8979 * DURATION (mm-ss):01-10

Serial # 09/607,786 / A System and Method for Joint Optimization of Language Model Performance and Size / Inventors Jainfeng Gao et al. / Attorney's Docket MS1-441US

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A method of decreasing memory usage in a computing device while increasing performance and application specificity of a language model, comprising:

- segmenting relatively large language corpora into multiple segments of equal size; a)
- **b**) selecting a relatively tiny initial tuning sample of application specific data [such as a few application-specific documents] for training a seed model, wherein the seed model is to be used for ranking the multiple segments from the language corpora;
 - training the seed model according to the tuning sample; c)
- ranking each of the multiple segments according to a perplexity comparison with d) the seed model;
 - selecting some of the multiple segments that possess a low perplexity; e)
 - augmenting the tuning sample with the selected segments; f)
- g) repeating steps c through f until the seed model achieves a predetermined size [or sufficient application specificity];
- h) to decrease the memory usage while increasing the performance and application specificity of the language model,
- 1) filtering the language corpora according to the seed model to select lowperplexity segments,
 - 2) combining data from the low-perplexity segments,
 - 3) training the language model according to the combined data; and
- i) pruning the language model utilizing an entropy based cutoff algorithm that uses only information embedded in the language model itself.

Thank You.

Lee & Hayes, PLLC; Mark Farrell Reg. 45,988

Est C. Donell